# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

Estimate Cost Rs. 4600000.00

**Name of Work:** Detailed Estimate for the work of Improvements to roads and construction of drains at Vikasa layout in ward No - 01 of Yelahanka Sub Division.

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 138/ Item No. 19.1/ PWD SR 2014-15 | cum | | | | | | | |
| | berm cutting 3rd cross | | 2 | 75.00 | 1.00 | 0.45 | 67.50 | | |
| | 2nd cross | | 2 | 65.00 | 1.00 | 0.50 | 65.00 | | |
| | 1st cross | | 2 | 102.00 | 1.00 | 0.50 | 102.00 | | |
| | cross road 1 | | 2 | 75.00 | 1.00 | 0.50 | 75.00 | | |
| | cross road 2 | | 2 | 65.00 | 1.00 | 0.50 | 65.00 | | |
| | Desilting 3rd cross | | 1 | 75.00 | 0.45 | 0.45 | 15.19 | | |
| | 2nd cross | | 1 | 65.00 | 0.45 | 0.45 | 13.16 | | |
| | 1st cross | | 1 | 102.00 | 0.45 | 0.45 | 20.66 | | |
| | cross road1 | | 1 | 85.00 | 0.45 | 0.45 | 17.21 | | |
| | cross road 2 | | 1 | 65.00 | 0.45 | 0.45 | 13.16 | | |
| | | | | | | | **453.88** | **75.60** | **34313.00** |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @ 8% | 5.60 | | | | | | | |
| | **Total** | **75.60** | | | | | | | |
| 2 | KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2014-15 | cum | | | | | | | |
| | for RCC drain 1st A cross | | 2 | 68.00 | 1.00 | 0.90 | 122.40 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | 2nd A cross | | 2 | 52.00 | 1.00 | 0.90 | 93.60 | | |
| | culvert | | 1 | 8.50 | 1.50 | 1.50 | 19.13 | | |
| | | | | | | | 235.13 | 176.04 | 41391.00 |
| | Basic Rate | 163.00 | | | | | | | |
| | Area Weightage @ 8% | 13.04 | | | | | | | |
| | Total | 176.04 | | | | | | | |
| 3 | KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15) | cum | | | | | | | |
| | | | Vide Item No. 1+2 | | | | 689.01 | 79.10 | 54500.00 |
| | Basic Rate for loading and unloading | 63.00 | | | | | | | |
| | Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4 | 10.24 | | | | | | | |
| | | 73.24 | | | | | | | |
| | Area Weightage @ 8% | 5.86 | | | | | | | |
| | Total | 79.10 | | | | | | | |
| 4 | KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 144/ Item No. 19.60/ PWD SR 2014-15 | cum | | | | | | | |
| | 2nd A cross | | 1 | 64.00 | 4.00 | 0.60 | 153.60 | | |
| | 1st A Cross | | 1 | 68.00 | 4.10 | 0.60 | 167.28 | | |
| | | | | | | | 320.88 | 220.32 | 70696.00 |
| | Basic Rate | 204.00 | | | | | | | |
| | Area Weightage @ 8% | 16.32 | | | | | | | |
| | Total | 220.32 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 5 | KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No.25 item No 5.27 SR 2014-15 | sqm | | | | | | | |
| | flagging course 3rd cross | 2x2 | 4 | 60.00 | 0.20 | | 48.00 | | |
| | 2nd cross | 2x2 | 4 | 65.00 | 0.40 | | 104.00 | | |
| | 1st cross | 1x2 | 2 | 102.00 | 0.40 | | 81.60 | | |
| | cross road 1 | 1x2 | 2 | 75.00 | 0.20 | | 30.00 | | |
| | cross road 2 | 1x2 | 2 | 65.00 | 0.40 | | 52.00 | | |
| | | | | | | | **315.60** | **993.60** | **313580.00** |
| | Basic Rate | 920.00 | | | | | | | |
| | Area Weightage @ 8% | 73.60 | | | | | | | |
| | **Total** | **993.60** | | | | | | | |
| 6 | KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15 | Cum | | | | | | | |
| | for RCC drain 1st A cross | | 2 | 68.00 | 1.00 | 0.15 | 20.40 | | |
| | 2nd A cross | | 2 | 52.00 | 1.00 | 0.15 | 15.60 | | |
| | for culvert | | 1 | 8.50 | 1.50 | 0.15 | 1.91 | | |
| | profile correction 3rd cross | | 2 | 60.00 | 0.45 | 0.10 | 5.40 | | |
| | 2nd cross | | 2 | 65.00 | 0.45 | 0.10 | 5.85 | | |
| | 1st cross | | 1 | 102.00 | 0.45 | 0.10 | 4.59 | | |
| | cross road | | 1 | 75.00 | 0.45 | 0.10 | 3.38 | | |
| | cross road | | 1 | 65.00 | 0.45 | 0.10 | 2.93 | | |
| | Ramp | | 2 | 8.50 | 0.60 | 0.15 | 1.53 | | |
| | | | | | | | **61.58** | **5064.12** | **311861.00** |
| | Basic Rate | 4689.00 | | | | | | | |
| | Area Weightage @ 8% | 375.12 | | | | | | | |
| | **Total** | **5064.12** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc,** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15 | Cum | | | | | | | |
| | for RCC drain bed 1st A cross | | 2 | 68.00 | 1.00 | 0.15 | 20.40 | | |
| | side walls | | 4 | 68.00 | 0.15 | 0.90 | 36.72 | | |
| | 2nd A cross bed | | 2 | 52.00 | 1.00 | 0.15 | 15.60 | | |
| | side walls | | 4 | 52.00 | 0.15 | 0.90 | 28.08 | | |
| | for culvert bed | | 1 | 8.50 | 1.50 | 0.23 | 2.93 | | |
| | side wall | | 2 | 8.50 | 0.23 | 1.20 | 4.69 | | |
| | deck | | 1 | 8.50 | 0.23 | 1.50 | 2.93 | | |
| | Coping 3rd cross | | 4 | 60.00 | 0.20 | 0.10 | 4.80 | | |
| | 2nd cross | | 4 | 65.00 | 0.20 | 0.10 | 5.20 | | |
| | 1st cross | | 2 | 102.00 | 0.20 | 0.10 | 4.08 | | |
| | cross road | | 2 | 75.00 | 0.20 | 0.10 | 3.00 | | |
| | cross road | | 2 | 65.00 | 0.20 | 0.10 | 2.60 | | |
| | Ramp | | 2 | 8.50 | 0.60 | 0.10 | 1.02 | | |
| | | | | | | | **132.06** | **6065.28** | **800963.00** |
| | Basic Rate | 5616.00 | | | | | | | |
| | Area Weightage @ 8% | 449.28 | | | | | | | |
| | **Total** | **6065.28** | | | | | | | |
| 8 | KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2014-15 | **Quintal** | | | | | | | |
| | **90 kg/cum rcc drain** | | 0.900 | **111.36** | | | 100.22 | | |

| Sl No. | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | *111.36* | | | 100.22 | 7254.80 | 727085.00 |
| | Basic Rate | 7254.80 | | | | | | | |
| 9 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15 | sqm | | | | | | | |
| | for RCC drain | 2x4 | 8 | 68.00 | 0.90 | | 489.60 | | |
| | | 2x4 | 8 | 52.00 | 0.90 | | 374.40 | | |
| | for culvert side | 2x2 | 4 | 8.50 | 1.20 | | 40.80 | | |
| | deck | 1x1 | 1 | 8.50 | 1.50 | | 12.75 | | |
| | | 1x1 | 1 | 8.50 | 0.23 | | 1.96 | | |
| | | 1x1 | 1 | 8.50 | 0.23 | | 1.96 | | |
| | | | | | | | **921.46** | **292.68** | **269693.00** |
| | Basic Rate | 271.00 | | | | | | | |
| | Area Weightage @ 8% | 21.68 | | | | | | | |
| | **Total** | **292.68** | | | | | | | |
| 10 | RCC Precast covering slab for drain (10cm thick ) | sqm | | | | | | | |
| | 1st A Cross | | 2 | 68.00 | 0.90 | | 122.40 | | |
| | 2nd A Cross | | 2 | 52.00 | 0.90 | | 93.60 | | |
| | 3rd cross | | 2 | 60.00 | 0.90 | | 108.00 | | |
| | 2nd cross | | 2 | 65.00 | 0.90 | | 117.00 | | |
| | 1st cross | | 1 | 102.00 | 0.90 | | 91.80 | | |
| | cross road 1 | | 2 | 75.00 | 0.90 | | 135.00 | | |
| | cross road 2 | | 1 | 65.00 | 0.90 | | 58.50 | | |
| | | | | | | | 726.30 | **1498.00** | **1087997.00** |
| | **Rate Approved by BBMP** | **1498.00** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | Unit | No | L | B | D | Qty | Rate | Amount |
| | ADMINISTRATIVELY SANCTIONED FOR Rs. 4600000/- | | | | | | | | |
| 11 | KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154, item No 20.18 SR 2014-15 | **cum** | | | | | | | |
| | 1st A Cross | | 1 | 62.00 | 4.00 | 0.20 | 49.60 | | |
| | 2nd A Cross | | 1 | 67.00 | 4.10 | 0.20 | 54.94 | | |
| | approach | | 2 | 10.00 | 7.00 | 0.20 | 28.00 | | |
| | | | | | | | **132.54** | **1438.56** | **190667.00** |
| | Basic Rate | 1332.00 | | | | | | | |
| | Area Weightage @ 8% | 106.56 | | | | | | | |
| | **Total** | **1438.56** | | | | | | | |
| 12 | KSRRB M500-6: providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15 | **sqm** | | | | | | | |
| | 1st A Cross | | 1 | 62.00 | 4.00 | | 248.00 | | |
| | 2nd A Cross | | 1 | 67.00 | 4.10 | | 274.70 | | |
| | approach | | 2 | 10.00 | 7.00 | | 140.00 | | |
| | | | | | | | **662.70** | **35.21** | **23332.00** |
| | Basic Rate | 32.60 | | | | | | | |
| | Area Weightage @ 8% | 2.61 | | | | | | | |
| | **Total** | **35.21** | | | | | | | |

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | KSRRB M500-18: providing and laying Semidence bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading II (25-30mm) with 5% CRMB -55 grade, No. 160/ Item No. 21.21.6 SR 2014-15 | cum | | 62.0 | | | | | |
| | 1st A Cross | | 1 | ~~52.00~~ | 4.00 | 0.025 | ~~5.20~~ 5.20 | | |
| | 2nd A Cross | | 1 | 67.00 | 4.10 | 0.025 | 6.87 | | |
| | approach | | 2 | 10.00 | 7.00 | 0.025 | ~~5.50~~ 5.50 | | |
| | Basic Rate 10066.00 | | | | | | ~~15.57~~ 16.57 | 10871.28 | ~~169239.00~~ 180,110.00 |
| | Area Weightage @ 8% 805.28 | | | | | | | | |
| | Total 10871.28 | | | | | | | | |
| | | | | | | | Sub Total | | 4105282.00 |
| 14 | KRIDL Charges + Labourcess 11% | | | | | | | | 451581.00 |
| 15 | 1% of Quality control charges | | | | | | | | 41053.00 |
| 16 | Miscellaneous charges | | | | | | | | 2084.00 |
| | | | | | | | | Total | 4600000.00 |

(Rupees Forty Six Lakhs Only)

ADMINISTRATIVELY SANCTIONED FOR Rs. 4600000/-
Rupees Forty Six lakhs only
Under P0190 mayor grants
Registered as CE ( ) No. ....
Subject to conditions ..... in
enclosed memo CE ( ) No. ....
Dt 06/11/2014 Estimate ..... cd
BBMP/YNK/JE/AA/1642/14-15
dated 06/11/2014 4600000/-

1 E 06/11/14

Commissioner
(Yelahanka Zone)
B.B.M.P. Bengaluru-92

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

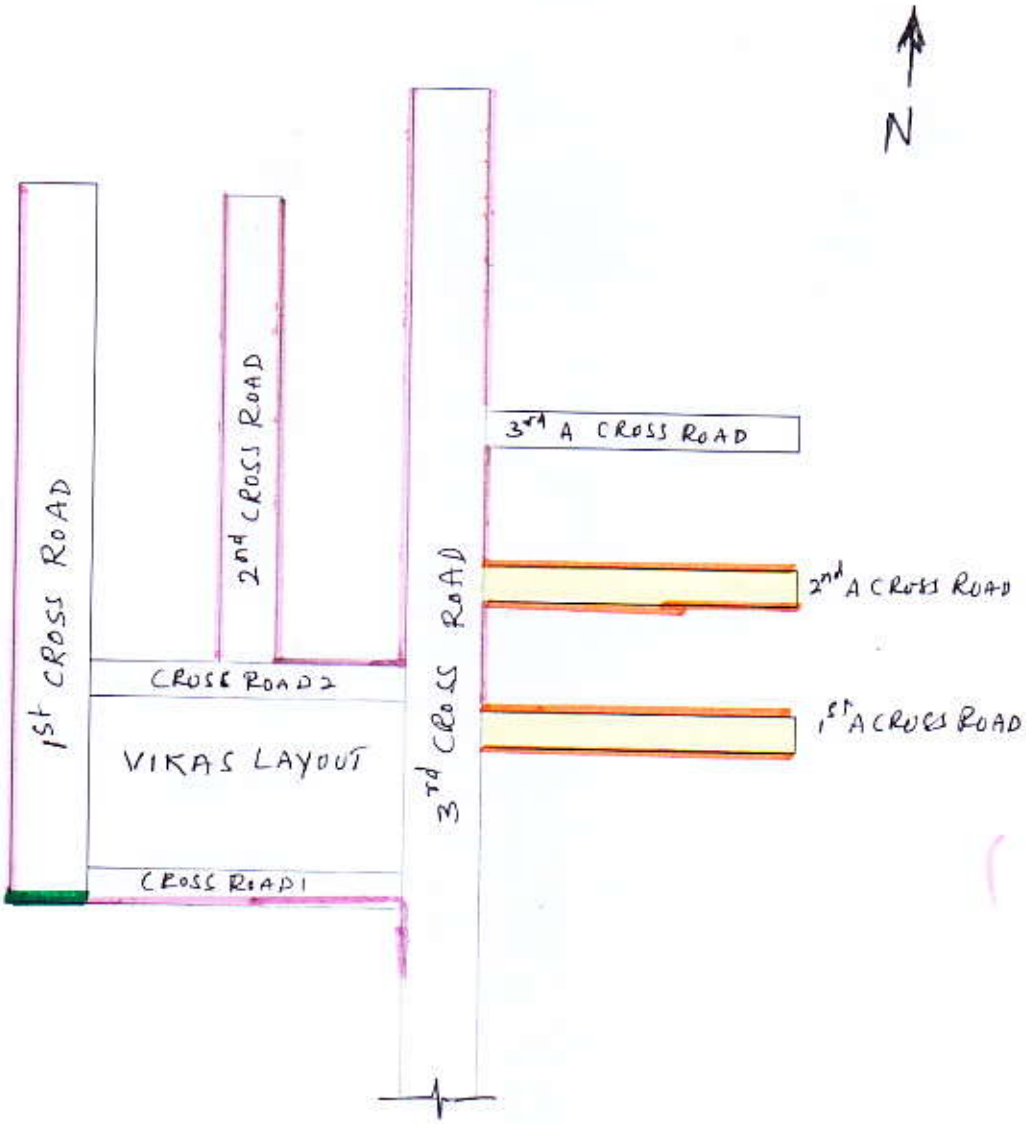
Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

~~Received~~ Sanction for Rs. 4.6.00.000/-
Forty six lakhs only
is accorded under head P.0190 mayors grants
registered as CE No. ..... Subject
to Conditions contained in enclosed memo
No. BBMP/YNK/CE/64/14-15 6/11/14

NAME OF WORK: Improvements to roads and construction of drains at Vikasa layout in ward No - 01 of Yelahanka Sub Division.




RCC Drain
Flaging Coum
Culvert
Asphalting surface

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Yak. Zn)
Yelahanka, Bangalore